

# **SESSION D-3: ROLE OF VPP & OTHER INITIATIVES IN SUSTAINING ISM**

## **CONTINUOUS IMPROVEMENT & THE ROLE OF VPP IN FE**



### **PRESENTERS**

**AL WHITE, SAFETY & HEALTH MANAGER,  
OFFICE OF FOSSIL ENERGY**

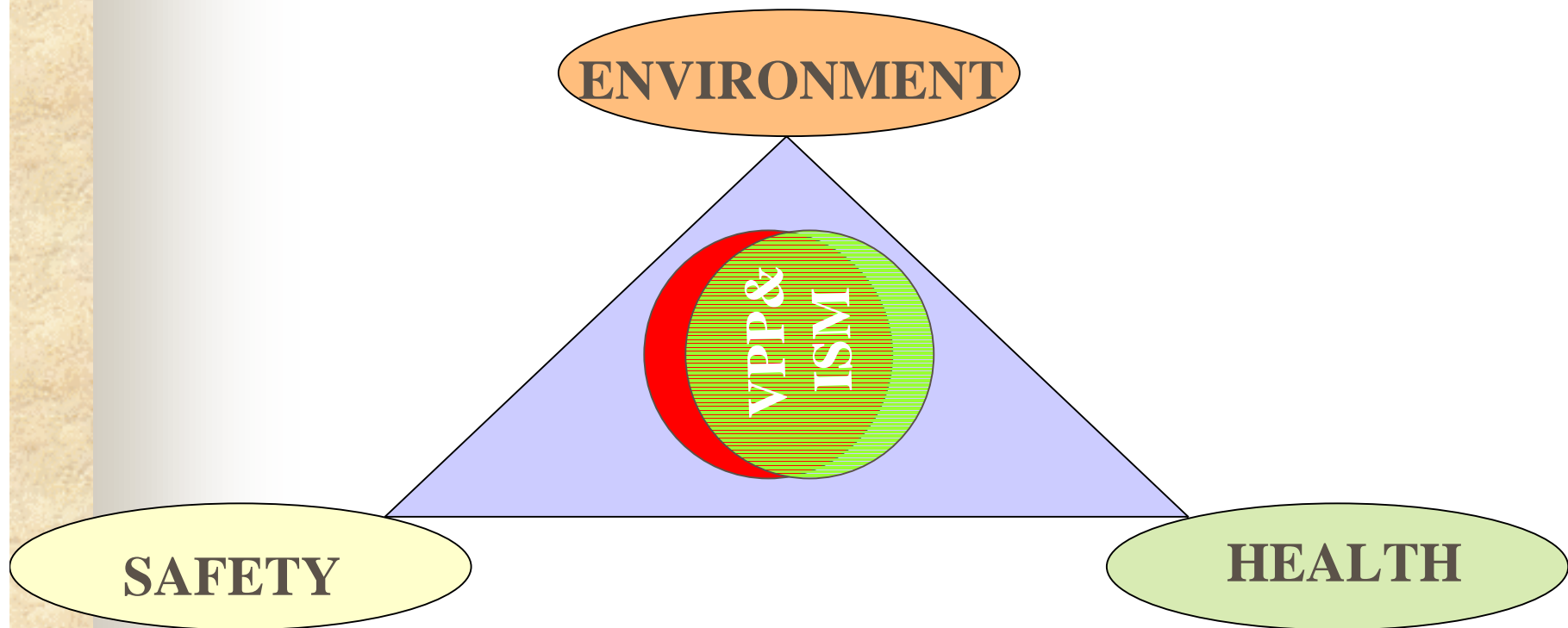
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DYNMCDERMOTT**



## ISM PERFORMANCE IN FE

- FE WAS THE FIRST ORGANIZATION TO DECLARE ISM IMPLEMENTED
- ACTION PLANS DEVELOPED TO IMPROVE IMPLEMENTATION
- FE-1 COMMITMENT TO CONTINUE IMPROVING ISM
- FE-1 CHALLENGE TO SITES ON VPP OR ISO 14001 ACCREDITATION

# ISM & VPP: PARTNERS IN ENVIRONMENT, SAFETY & HEALTH





## ACHIEVING VPP ACCREDITATION

- CONTINUES THE FOCUS ON ES&H/ISM
- CONFIRMS THAT  
ELEMENTS/PRINCIPLES/FUNCTIONS  
IMPLEMENTED
- IMPROVES THE INVOLVEMENT OF  
WORKERS IN ES&H
- OSHA RECOGNIZES PERFORMANCE OF  
MANAGEMENT & EMPLOYEES



## TEAMING IN FE TO ACCOMPLISH VPP

- LIMITED STAFF & RESOURCES IN FE
- FE TEAM APPROACH TO VPP ACTIVITIES
- EXPANDING FE VPP EXPERTISE BY
  - INVOLVING PERSONNEL FROM OTHER SITES IN VPP ACTIVITIES, E.G., DRYRUNS, GAP ANALYSIS
  - USING EH PERSONNEL TO EXPAND FE VPP EXPERTISE
  - PROVIDING VPP TRAINING OPPORTUNITIES

# VPP, ISM, & Behavioral Safety

- 1993 DM's experience was that workers did not feel involved in safety despite PSM.
- DM elected to begin a behavioral safety program.
- PSM and the behavioral safety program addressed a significant number of the ISM safety related Principles and Functions.
- VPP supports ISM





# ISM Provides valuable tools

- Tools which allow the employee to meet their ultimate responsibility: protecting him or herself from harm
- Tools which ensure that feedback occurs before an accident
- Proactive measurement tools



# Qualitative ISM Assessment

Compliance and system evaluation

➤ DOE On-site Reviews

➤ DM Self Assessments and Independent Assessments

➤ Behavioral safety feedback

➤ External Assessments

- ★ DOE HQ/SPR VPP Team “Dry-runs”
- ★ OSHA VPP Appraisals
- ★ ISO 14001





# Annual ISM Evaluation

## Quantitative Assessment

- 80 individual performance metrics were considered
- Of those, 71 used a 100% of the population as a sample size
- Four used a 90% confidence level or above
- Two used 100% sample of two sites
- Three were not used



# Sample Metrics

- Total population of on-site review ISM findings
  - ❖ 533 characteristics
  - ❖ 440 - effective performance
  - ❖ 79 - some improvement needed
  - ❖ 14 - Weakness
    - ✧ All Configuration Management - systemic
    - ✧ All corrected by final audits



# Sample Metrics

- 14,339 safe work permits written in FY2000
  - ❖ 250 reviewed, >90% confidence level
  - ❖ Four had an identified procedural problem - all electrical
  - ❖ Isolated problem - corrective action in process



# Sample Metrics

- Behavioral Safety
  - ▣ 6,163 observations were made in FY200
  - ▣ 41,496 safe behaviors
- ISO 14001
  - ▣ Number of days without reportable occurrences or releases to Environment - 99.73%

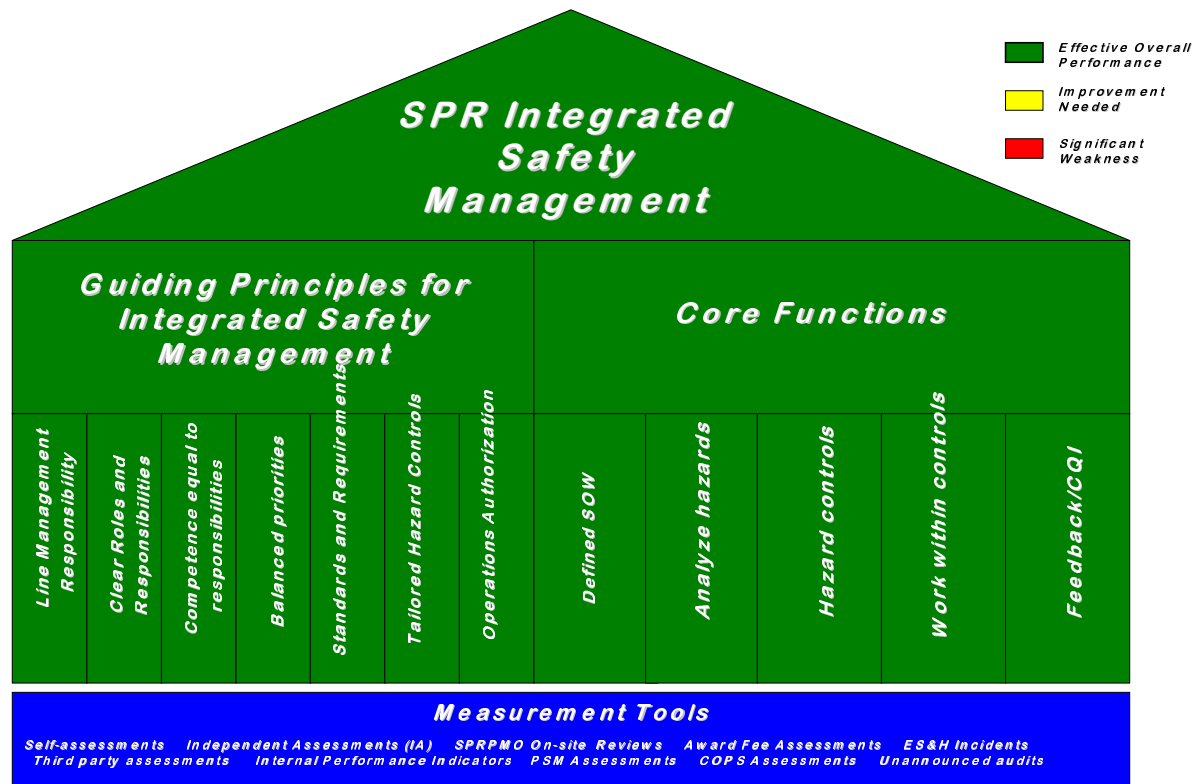


# Noteworthy Practices

- Integration of OSHA VPP within ISM
- Integration of ISO 14001 within ISM
- Support of ISM and VPP by Behavioral Safety
- A strong system of passing “lessons-learned” from site to site and via VPP network
- **Enhanced worker involvement, responsibility, and teamwork**



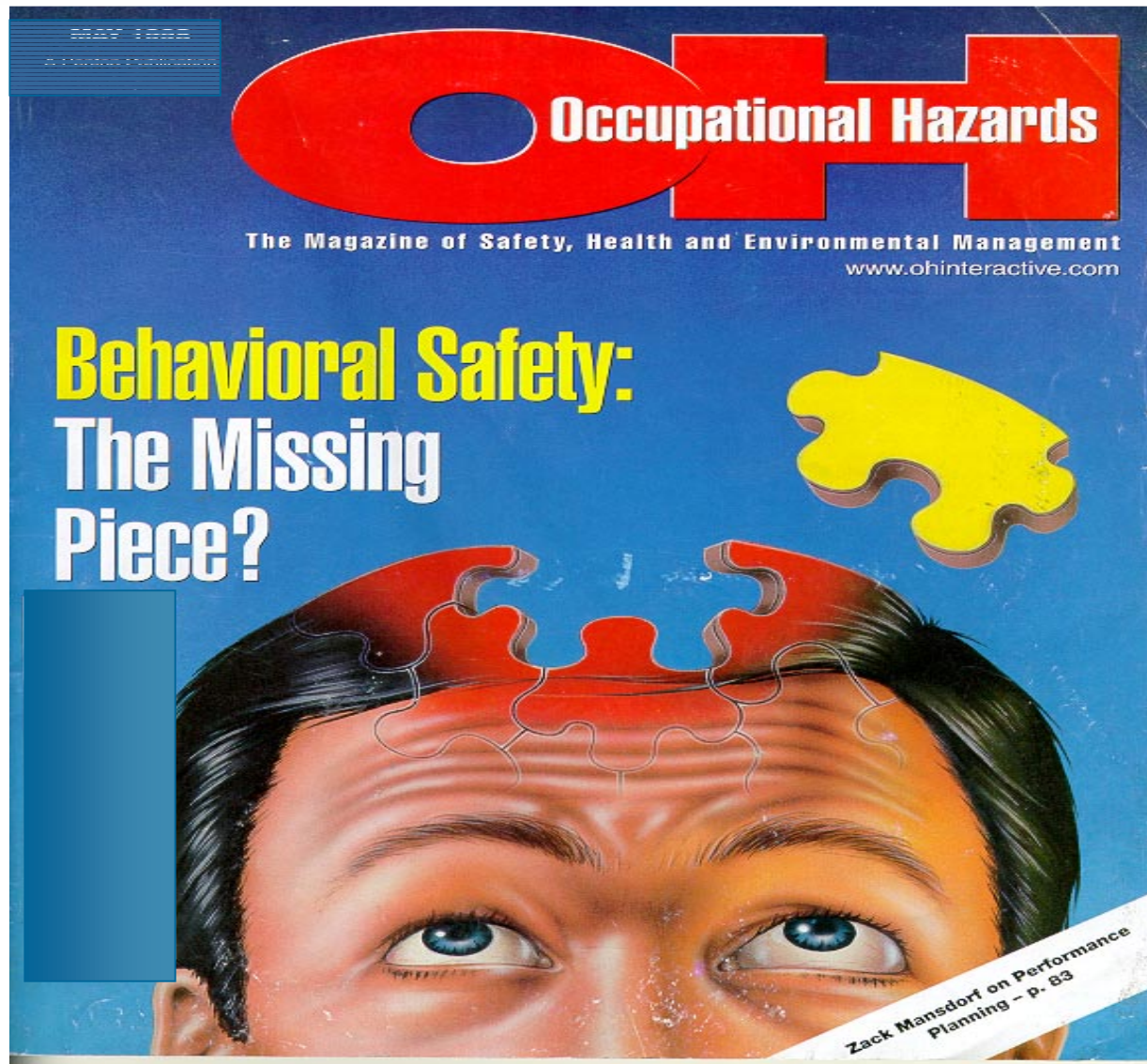




ISO14001







# ISM Is Supported by Behavioral Safety

- Work definition and planning (F1)
- Hazard identification and analysis (F2)
- Implementation of hazard controls (F3)
- Performance of work within controls ( F4)
- Developing and implementing operations procedures
- Monitoring and assessing performance
- Verification and revision( F5)

